

Anytown USA Oak Meadow Circle Incident

October 24, 2016
To
December 2016

Background on property

- Father was former chemist (now deceased).
- Elder brother was a chemist (new deceased).
- Both "collected" old chemicals since 1950's
- Intent to start an analytical lab business.
- 2014 property sold to developer.
- Subdivided into several residential lots.
- Original house and shed scheduled for demo.
- Local permits applied for by developer.
- Demo of main house scheduled for end of Oct.

Timeline - Part 1

- Sat 10/22/16
 - Demolition of house
- Mon 10/24/16
 - Demolition of shed/barn
 - Spontaneous ignition of shed/barn during demolition.
 - Neighbor contacts local board of health due to odor/ respiratory concerns
 - Two demo workers concerned about odor/respiratory concerns
- Tues 10/25/16
 - MassDFS HazMat Tier 1 Response #1
 - MassDEP ER Response #1
 - Deputy Fire Chief orders dumpsters back to property
 - Developer initially contracts with cleanup contractor (NEDT) and Licensed Site Professional (CMG)
 - An then......



Timeline - Part 2

Response Part 2

- MassDFS HazMat Tier 1 Response #2 & MassDEP ER Response #2
- Discovery of radiation label in dumpster
- Detection of radiation levels on responder boots
- Time Out!

Wed 10/26/16

- Multi-agency response
- Screening of demo dumpster and responder equipment for rad
- Confirmation of false positive. Rad removed as issue.
- Ongoing surface soil pickup of lab chemical containers
- Completion of demo dumpster emptying, segregating etc.

• Thurs 10/27/16

- Beginning exploration of cellar hole with excavator
- Ongoing recovery of lab chemical containers
- Likely contaminated soils transferred to tight roll-offs

Friday 10/28/16

Continuation of soil screening and containment



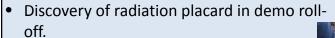
Project Priorities

- Assemble technical support team
- Air sampling
- Radiation issue
- Control site access
- Address immediately accessible chemical containers
- Address demo roll-off
- Screen recovered chemical containers
- Begin shallow subsurface exploration
- "Special" Issue

Response Team

- Anytown Fire
- Anytown Police
- Anytown Health
- Anytown Town Manage / Public Affairs
- Mass Dept. of Fire Services HazMat Team
- Mass State Police Bomb Squad
- Mass Dept. of Public health Radiation Control Program
- Mass Dept. of Enviro Protection Emergency Response
- EPA Emergency Response & START
- New England Disposal Technology
- OSHA

Radiation Issue



- Detection of 90 cpm in roll off
- Detect 300 cpm on responder boots.
- Shut down operations pending DPH NIAT.
- Readings determined to be false positive.



Air Monitoring Mobile Monitoring LINE DO NOT CROSS





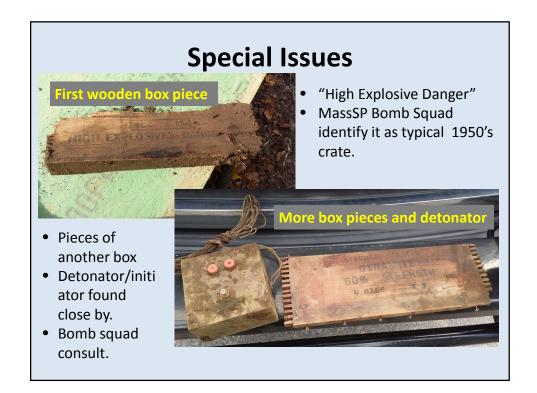




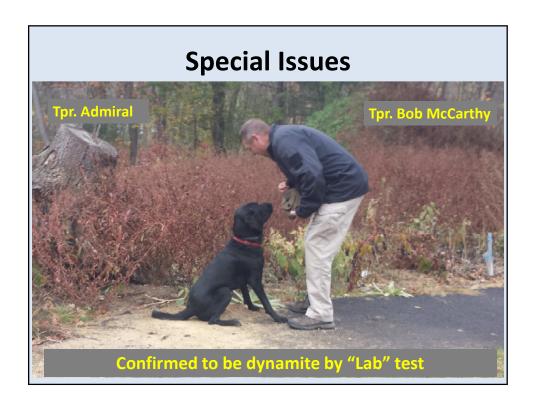
- Logistics of handling 500+ unknown chemicals.
- Chemical classifying for DOT transport and disposal.
- Secured on site in drums.















1,4 bis(trimethylsilyl)1,3 butadiyne 1,5 diphenyl carbazide 1-4 diphenyl carbazide 2, 4 dinitrophenol (4/3/3/-) 2-napthol (2/0/0/-) 4. nitrobenzylbromide alpha lactose monohydrate aluminum ammonium sulfate aluminum potassium decahydrate aminiophenyl sulphone ammonium cobalt II sulfate hexahydrate ammonium cobalt sulfate / potassium sulfate mixture ammonium hydrogen citrate ammonium hydrogenate Ammonium hydroxide (3/1/0/-) arsenic (III) oxide (3/0/1/-) barium sulfate (2/0/0/-) beryllium sulfate tetrahydrate (3/0/0/-) boric acid (2/0/0/-) boron tribromide (4/0/3/-) calcium sulfate dihydrate (0/0/0/-) carbon tetrachloride (3/0/0/-) cesium nitrate (2/1/2/Ox) dynamite (1/4/?/?) ethyl alcohol (1/3/0/-)

Galactose (0/0/0/-) gallium III Sulfate (0/1/0/-) Hexamethylenetetramine hydrofluoric acid (4/0/1/-) hydroquinoline hydroxalamine hydrochloride isobornyl thiocyano acetate Lead II Nitrate (3/0/3/Ox) Lead II oxide (2/1/1/-) Lead nitrate (3/0/3/Ox) Lead oxide Lithium carbonate mercury acetate (3/0/0/-) mercury - elemental (3/0/0/-) mercury II Chloride (4/0/0/-) mercury II oxide metyl orange mineral spirits napthalene nitrobenzene (3/2/0/-) n-methylanthranilic acid oxalic acid (3/1/0/-) oxalic acid dihydrate (3/1/2/-) phenyl hydrazine (2/0/2/-) phenyl-1,2 ethanediol phosphorous, white Phosphoric acid (3/0/0/-) Picric acid (2/0/2/-) special piperonal Polyethylene Potassium carbonate (2/0/1/-)

Resorcinol (3/1/0/-) silicon dioxide (2/2/0/-) sodium benzoate sodium bicarbonate (1/0/0/-) Sodium carbonate decahydrate sodium carbonate monohydrate (1/0/0/-) sodium chromate (3/0/1/Ox) sodium chromate tetrahydrate Sodium cyanide (3/0/3/-) sodium oxalate sodium sulfite (3/0/0/-) sodium thiosulfate pentahydrate (2/0/0/-) sodium tungstate dihydrate (2/0/0/-) soybean oil (0/1/0/-) Strontium nitrate (2/0/2/Ox) Sulfanilic acid (2/0/0/-) sulfur powder (2/2/0/-) sulfur powder / phosphorous pentabromide (2/2/0/-) Tantalum (V) Methoxide Trichloroethane (3/1/0/-)

potassium hydroxide (3/0/1/Cor)

potassium nitrate (2/0/3/Ox)

potassium sulfate (1/0/0/-)

pyridine trifluoroacetate

Response Summary

- 1,000+ lab containers recovered
 - 500+ with contents
 - 100+ First Defender/identifiable
 - 100+ general classification identifiable
- 4 State Police Bomb Squad "Render Safe"
- 32 roll-offs (20 yd) removed as of 25 Nov. 2016
- Est. end of emergency phase as of 30 Nov 2016
- Transition meeting with locals 1 Dec. 2016
- Est. MassDEP Cost = \$250,000

What worked

- Early Detection / Early Recognition
 - Calling in the cavalry
- Common Operating Picture
 - Playing to the skills and abilities
- Public Information
 - Local lead
 - Use of Code Red, local Dept. briefings, and Info night at FD.
 - Local presence 24/7
- Scene Security (just before halloween)
 - Fence, light tower, Police detail
- Weather
 - One rainy day
- Pre existing working relationships

Questions